

# Energy Education in Alaska

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**Anchorage, Alaska**  
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Renewable Energy  
Alaska Project

# Renewable Energy Alaska Project (REAP) is:

- Since 2004, Alaska's first *education and advocacy* group for renewable energy and energy efficiency.
- An Alaskan coalition of small and large electric utilities and utility interests, environmental groups, consumer groups, businesses, Alaska Native organizations and energy agencies with the goal of “increasing the production of renewable energy in Alaska.”

# REAP Board of Directors

Chugach Electric Association (CEA)  
Municipal Light and Power (ML & P)  
Golden Valley Electric Association (GVEA)  
Homer Electric Association (HEA)  
Kotzebue Electric Association (KEA)  
Alaska Village Electric Cooperative (AVEC)  
TDX Power  
Kodiak Electric Association  
Alaska Power and Telephone

Sierra Club  
Alaska Center for the Environment  
Alaska Conservation Alliance

Institute of the North  
Rural Alaska Community Action Program (RurALCAP)  
Green Star

Chena Hot Springs Resort  
Ocean Renewable Power Company (ORCP)  
ABS Alaskan

Bering Straits Native Corporation  
Yukon River Inter-Tribal Watershed Conference  
Cook Inlet Region Incorporated (CIRI)

# REAP Advisory Members

Alaska Energy Authority (AEA)

Denali Commission

National Renewable Energy Lab (NREL)

Alaska Housing Finance Corporation (AHFC)

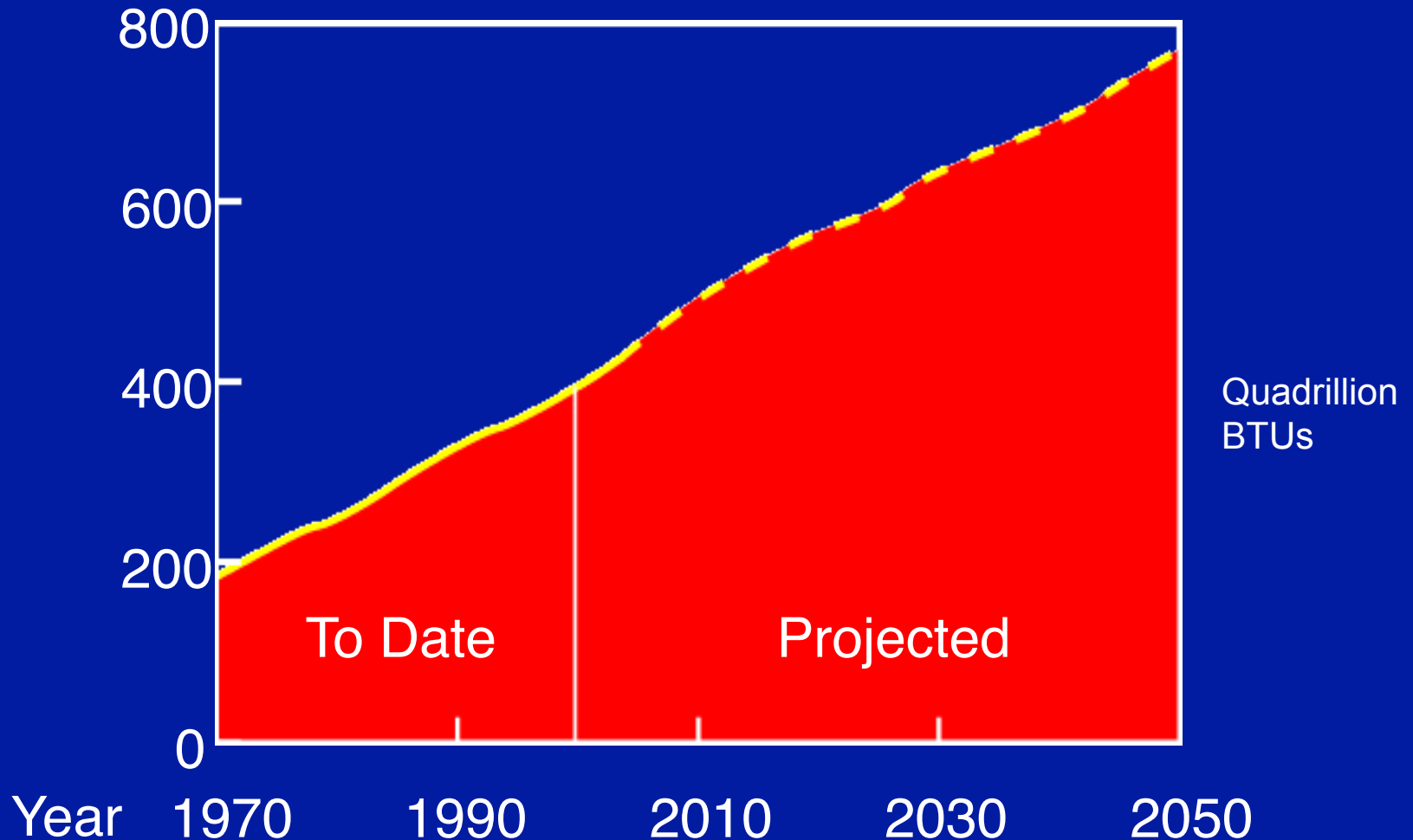
Alaska Center for Energy & Power (ACEP)

UAA Bristol Bay Campus

USDA Rural Development

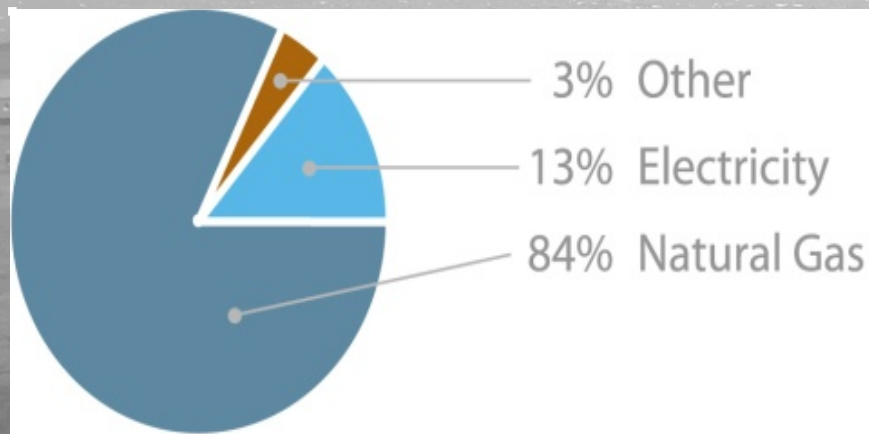
# Clean Energy is Risk Management:

Worldwide Energy Demand is Expected to Double by 2050

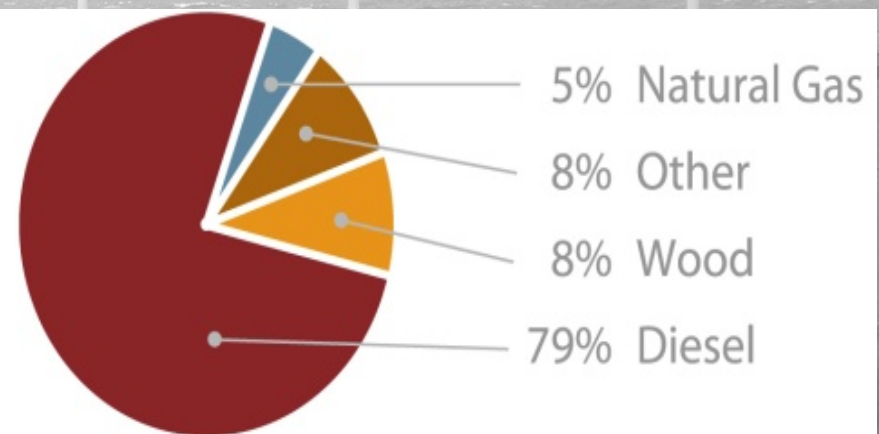


*Today, nearly 80% of rural communities are dependent on diesel fuel for their primary energy needs.*

## How Alaskans Heat Their Buildings



Anchorage



Rural Communities

In the next 10 years it's estimated  
Alaskans will spend more than  
\$50 BILLION on diesel fuel, natural  
gas and gasoline for our electricity,  
heat and transportation

And that's if fuel prices  
don't go up at all...

What about the next 40  
years?





# Southeast IRP Community Engagement Project

- The SE IRP provides a frame to discuss EE&C
- Alaska Energy Authority supporting REAP's work in Kake, Craig & Sitka over 13 months to develop a methodology to create a “buzz” around EE&C
- “Total Community Energy Dollar” approach

# REAP' s Focus

- Finding & publicizing success stories
- Finding local messages
- Finding local messengers
- Public & commercial buildings



**AK** ENERGY  
SMART



# AK ENERGYSMART

- An Alaska-specific K-12 energy curriculum designed with Alaska's unique cultures, environments, and energy challenges in mind
- Purpose: give Alaskan youth a better awareness of how they use energy and the importance of taking measures to use energy wisely both at home and school
- ~22 lessons from Kindergarten to Grade 12
- Aligned to Alaska's Grade Level Expectations (GLEs), it covers subjects from science and math to reading and social studies





**AK** ENERGY  
SMART



# AK ENERGYSMART TEAM

- Funded by the Alaska Housing Finance Corporation (AHFC)
- Developed by Alaska Center for Energy and Power (ACEP) and Renewable Energy Alaska Project (REAP)
- Content reviewers:
  - Cold Climate Housing Research Center
  - Alaska Native Knowledge Network
  - Juneau Economic Development Council's STEM Program
  - Pilot teachers from around the state

# Alaska Network for Energy Education (ANEE)

- REAP and ACEP working to create a statewide network that brings together K-12 educators, workforce development trainers and University staff to weave a common thread throughout the state's excellent, but unrelated, energy education programs
- Multiple goals include reducing redundancy, filling gaps and improving Alaskans overall understanding of where their energy comes from and the implications of all our energy decisions.

# Alaska's Challenge:

- Develop a **State Energy Vision and Plan** that we stick to to achieve energy security
- Become the place with the *most energy efficient building stock in the world* in 20 years
- Hedge against rising world oil prices by **displacing diesel** with local, predictably priced renewable energy sources
- Develop **world class energy education** curricula and workforce development programs to create good jobs and achieve our vision

# Thank you!

[www.realaska.org](http://www.realaska.org)

